

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	09/400,769-Conf. #03787
Filing Date	September 22, 1999
First Named Inventor	Erik Helmerhorst
Art Unit	1653
Examiner Name	H. Robinson
Attorney Docket Number	28594/35007A

Sheet	1	of	1
-------	---	----	---

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
<i>HR</i>	A22	5,817,684	10/06/1998	Fleisch et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B18	EP 579412A1	10-07-1990	<i>Not provided</i>		
	B48	EP 292977A1	09-04-1991			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

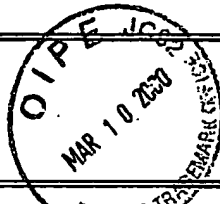
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>H. Robinson</i>	Date Considered	11/5/05
--------------------	--------------------	-----------------	---------

701677v1

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28594/35007A	Serial No. 09/400,769
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		Applicant Helmerhorst et al.	
		Filing Date Sept. 22, 1999	Group 1614



FOREIGN PATENT DOCUMENTS								
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
<i>HR</i>	B8	AU A 54495/86	19.09.86	AU	C07K	7/40	✓	
	B9	AU A 62066/86	05.03.87	AU	C07K	7/40	✓	
	B10	WO 88/06599	Sept. 1988	PCT				
	B11	WO 90/01038	08.02.90	PCT				
	B12	WO 90/07522	12.07.90	PCT				
	B13	WO 90/12814	01.11.90	PCT				
	B14	WO 95/17183	29.06.95	PCT				
✓	B15	0 132 366 A2	30.01.95	EPO	C07D	311/24		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
<i>HR</i>	C67	PCT International Search Report - International Application No. PCT/AU 99/00786
<i>HR</i>	C68	Aguilar-Bryan <i>et al.</i> , Chemical Abstracts, Abstract No: 490788 (1990) "Photoaffinity labelling and partial purification of the beta cell sulfonylurea receptor using a novel, biologically active glyburide analog., <i>J. Biol. Chem.</i> 265(14):8218-24 (1990)
↓	C69	Bahn <i>et al.</i> , Chemical Abstracts, Abstract No: 42678 (1980) "Cystic Acids as a solubilizing protective group in peptide chemistry, <i>Schriftenr Dtsch. Wollforschungsinst.</i> 76:5-7 (1978)

EXAMINER <i>Chape Robert</i>	DATE CONSIDERED <i>11/5/05</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

28594/35007A

Serial No.

09/400,769

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant

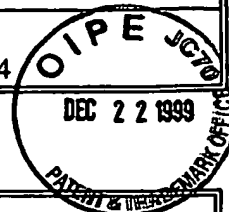
Erik Helmerhorst *et al.*

Filing Date

Sept. 9, 1999

Group

1614



U.S. PATENT DOCUMENTS

*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
<i>HR</i>	A1	4,871,739	10/3/89	Baldwin <i>et al.</i>	514	254	
	A2	4,992,418	02/12/91	Katsoyannis <i>et al.</i>	514	003	
	A3	5,008,241	04/16/91	Markussen <i>et al.</i>	514	003	
	A4	5,149,777	09/22/92	Hansen <i>et al.</i>	530	303	
	A5	5,175,145	12/29/92	Cooper	514	004	
	A6	5,227,466	07/13/93	DeMeyts	530	305	
	A7	5,514,646	05/07/96	Chance <i>et al.</i>	514	003	
	A8	5,599,841	02/04/97	Meglassón	514	557	
	A9	5,618,913	04/08/97	Brånge <i>et al.</i>	530	303	
	A10	5,629,319	05/13/97	Yuo <i>et al.</i>	514	284	
	A11	5,641,796	06/24/97	Dominianni <i>et al.</i>	514	374	
	A12	5,652,221	07/29/97	Larner <i>et al.</i>	514	035	
	A13	5,656,722	08/12/97	Dorschug	530	303	
	A14	5,661,168	08/26/97	Panetta <i>et al.</i>	514	369	
	A15	5,674,900	10/07/97	Ubillas <i>et al.</i>	514	557	
	A16	5,686,411	11/11/97	Gaeta <i>et al.</i>	514	012	
	A17	5,691,386	11/25/97	Inman <i>et al.</i>	514	691	
	A18	5,693,609	12/02/97	Baker <i>et al.</i>	514	003	
	A19	5,698,669	12/16/97	Hoffman <i>et al.</i>	530	303	
	A20	5,716,927	02/10/98	Balschmidt <i>et al.</i>	514	003	

EXAMINER

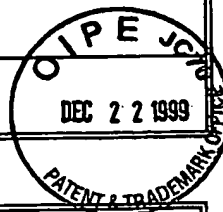
Hope Robinson
Hope Robinson

DATE CONSIDERED

8/24/02 / 1/15/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28594/35007A	Serial No. 09/400,769
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Erik Helmerhorst <i>et al.</i>	
		Filing Date Sept. 9, 1999	Group 1614



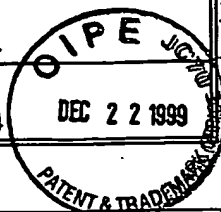
U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
<i>HR</i>	A21	5,716,975	02/10/98	Bue-Valleskey <i>et al.</i>	514	369	

FOREIGN PATENT DOCUMENTS								
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
<i>HR</i>	B1	0 325 224 B1	26/07/89	EPO	C12N	15/12		
	B2	0 433 225 A1	19/06/91	EPO	C07K	7/10		
	B3	0 618 227 A1	05/10/94	EPO	C07K	15/00		
	B4	1 305097	1989	JP	C07H	17/065		x
	B5	WO 96/13613	09/05/96	PCT	C12Q	1/68		
	B6	WO 97/27847	07/08/97	PCT	A61K	31/095		
<i>HR</i>	B7	WO 97/40017	30/10/97	PCT	C07D	231/00		

No English Abstract

EXAMINER <i>Arpe Tschirner</i>	DATE CONSIDERED <i>5/24/02/115/05</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28594/35007A	Serial No. 09/400,769
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Erik Helmerhorst <i>et al.</i>	
		Filing Date Sept. 9, 1999	Group 1614



OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
<i>Handwritten: 1/12</i>	C1	Bajaj <i>et al.</i> , <i>Biochem. J.</i> , 238:345-351 (1986) "Coypu insulin - Primary structure, conformation and biological properties of a hystricomorph rodent insulin"
<i>Handwritten: 1/12</i>	C2	Bao <i>et al.</i> , <i>Proc. Nat'l. Acad. Sci. (USA)</i> , 94:2975-2980 (April 1997) "Crystal structure of desheptapeptide (B24-B30)insulin at 1.6 Å resolution: Implications for receptor binding"
<i>Handwritten: 1/12</i>	C3	Blundell <i>et al.</i> , <i>Biochem. J.</i> , 125(3):50P-51P (Dec. 1971) "The Structure and Biology of Insulin"
<i>Handwritten: 1/12</i>	C4	Blundell <i>et al.</i> , <i>Proc. Nat'l. Acad. Sci. (USA)</i> , 75(1):180-184 (Jan. 1978) "Insulin-like growth factor: A model for tertiary structure accounting for immunoreactivity and receptor binding"
<i>Handwritten: 1/12</i>	C5	Blundell <i>et al.</i> , <i>Advances in Protein Chemistry</i> : 26, XII+431P., Academic Press: New York, NY USA, London, England, pp. 279-403 (1972) "Insulin: The Structure in the Crystal and its Reflection in Chemistry and Biology"
<i>Handwritten: 1/12</i>	C6	Chu <i>et al.</i> , <i>Biochemistry</i> , 26:6966-6971 (1987) "Possible Involvement of the A ²⁰ -A ²¹ Peptide Bond in the Expression of the Biological Activity of Insulin. 1. [21-Desasparagine, 20-cysteinamide-A]insulin and [21-Desasparagine, 20-cysteine isopropylamide-A]insulin"
<i>Handwritten: 1/12</i>	C7	Chu <i>et al.</i> , <i>Biochemistry</i> , 26:6972-6975 (1987) "Possible Involvement of the A ²⁰ -A ²¹ Peptide Bond in the Expression of the Biological Activity of Insulin. 2. [21-Asparagine diethylamide-A]insulin"
<i>Handwritten: 1/12</i>	C8	Chu <i>et al.</i> , <i>Biochemistry</i> , 26:6975-6979 (1987) "Possible Involvement of the A ²⁰ -A ²¹ Peptide Bond in the Expression of the Biological Activity of Insulin. 3. [21-Desasparagine, 20-cysteine ethylamide-A]insulin and [21-Desasparagine, 20-cysteine 2,2,2-trifluoroethylamide-a]insulin"
<i>Handwritten: 1/12</i>	C9	Corin <i>et al.</i> , <i>J. Biol. Chem.</i> , 257(1):104-110 (Jan. 10, 1982) "Insulin Receptors Convert to a Higher Affinity State Subsequent to Hormone Binding - A Two-State Model for the Insulin Receptor"
<i>Handwritten: 1/12</i>	C10	De Meyts <i>et al.</i> , <i>Biochem. Biophys. Res. Comm.</i> , 55(1):154-161 (1973) "Insulin Interactions With Its Receptors: Experimental Evidence For Negative Cooperativity"

EXAMINER <i>Handwritten: Anne Robinson</i>	DATE CONSIDERED <i>Handwritten: 5/24/02 / 11/5/05</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

28594/35007A

Serial No.

09/400,769

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant

Erik Helmerhorst *et al.*

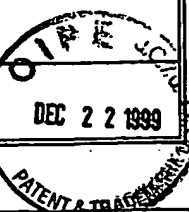
Filing Date

Sept. 9, 1999

Group

1614

DEC 22 1999



OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

✓	C11	De Meyts, <i>Bull. Mem. Acad. R. Med. Belg.</i> , 149(3-4):181-194 (1994) Abstract Only in English "Insulin receptors and mechanism of action of insulin and of insulin-like growth factors"
✓	C12	Djuric <i>et al.</i> , <i>J. Med. Chem.</i> , 32(6):1145-1147 (June 1989) "Communications to the Editor"
✓	C13	Donner, <i>Proc. Nat'l. Acad. Sci. (USA)</i> , 77(6):3176-3180 (June 1980) "Regulation of insulin binding to isolated hepatocytes: Correction for bound hormone fragments linearizes Scatchard plots"
✓	C14	Donner <i>et al.</i> , <i>J. Biol. Chem.</i> , 258(15):9413-9418 (1983) "Hormone-induced Conformational Changes in the Hepatic Insulin Receptor"
✓	C15	Easter <i>et al.</i> , <i>Hoppe-Seyler's Z. Physiol. Bd.</i> , 359:S.1229-1236 (Sept. 1978) "Crystalline [A21-Desamido]Bovine Insulin"
✓	C16	Federigos <i>et al.</i> , <i>Int. J. Peptide Protein Res.</i> , 13:43-53 (1979) "[21 - ARGININE - A] INSULIN: A Biologically Active Analog"
✓	C17	Gammeltoft, <i>Physiol. Rev.</i> , 64(4):1321-1379 (Oct. 1984) "Insulin Receptors: Binding Kinetics and Structure-Function Relationship of Insulin"
✓	C18	Gapinski <i>et al.</i> , <i>J. Med. Chem.</i> , 33:2807-2813 (1990) "Benzophenone Dicarboxylic Acid Antagonists of Leukotriene B ₄ . 2. Structure-Activity Relationships of the Lipophilic Side Chain"
✓	C19	Garrett <i>et al.</i> , <i>Nature</i> , 394:395-399 (23 July 1998) "Crystal structure of the first three domains of the type-1 insulin-like growth factor receptor"
✓	C20	Gattner <i>et al.</i> , <i>Hoppe-Seyler's Z. Physiol. Chem. Bd.</i> , 358:S.105-112 (Jan. 1977) "[A21-Asparaginimide] Insulin - Saponification of Insulin Hexamethyl Ester, I"
✓	C21	Hammond <i>et al.</i> , <i>Am. J. Physiol.</i> , 272(6):1136-1144 (1997) "An Evaluation of the cross-linking model for insulin-receptor interactions"
✓	C22	Harmon <i>et al.</i> , <i>J. Biol. Chem.</i> , 258(11):6875-6881 (10 June 1983) "Characterization of a Membrane Regulator of Insulin Receptor Affinity"

EXAMINER

Hope Robinson

DATE CONSIDERED

5/24/02 / 1/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

28594/35007A

Serial No.

09/400,769

DEC 22 1999

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant

Erik Helmerhorst *et al.*

Filing Date

Sept. 9, 1999

Group

1614

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

112	C23	Harper <i>et al.</i> , <i>J. Med. Chem.</i> , 37:2411-2420 (1994) "Leukotriene ^B ₄ (LTB ₄) Receptor Antagonists: A Series of (Hydroxyphenyl)pyrazoles"
	C24	Helmerhorst, <i>Biochem. Biophys. Res. Commun.</i> , 147(1):399-407 (31 Aug. 1987) "The Insulin-Receptor Interaction: Is The Kinetic Approach For Inferring Negative-Cooperative Site-Site Interactions Valid?"
	C25	Helmerhorst <i>et al.</i> , <i>Biochem.</i> , 32(9):2356-2362 (1993) "Insulin Binding to Rat Liver Membranes Predicts a Homogeneous Class of Binding Sites in Different Affinity States That May Be Related to a Regulator of Insulin Binding"
	C26	Hua <i>et al.</i> , <i>Biochem.</i> , 30:5505-5515 (1991) "Comparative 2D-NMR Studies of Human Insulin and Des-pentapeptide Insulin: Sequential Resonance Assignment and Implications for Protein Dynamics and Receptor Recognition"
	C27	Hua <i>et al.</i> , <i>Nature</i> , 354:238-240 (21 Nov. 1991) "Receptor binding redefined by a structural switch in a mutant human insulin"
	C28	Hua <i>et al.</i> , <i>Biochem.</i> , 31:11940-11951 (1992) "Nonlocal Structural Perturbations in a Mutant Human Insulin: Sequential Resonance Assignment and ¹³ C-Isotope-Aided 2D-NMR Studies of [PheB24-Gly]Insulin with Implications for Receptor Recognition"
	C29	Hua <i>et al.</i> , <i>Biochem.</i> , 32:1433-1442 (1993) "Dynamics of a Monomeric Insulin Analogue: Testing the Molten-Globule Hypothesis"
	C30	Hubbard <i>et al.</i> , <i>Nature</i> , 372:746-755 (22/29 Dec. 1994) "Crystal structure of the tyrosine kinase domain of the human insulin receptor"
	C31	Hubbard, <i>EMBO J.</i> , 16(18):5572-5581 (1997) "Crystal structure of the activated insulin receptor tyrosine kinase in complex with peptide substrate and ATP analog"
	C32	Isakoff <i>et al.</i> , <i>Proc. Nat'l. Acad. Sci. (USA)</i> , 92:10247-10251 (Oct. 1995) "The inability of phosphatidylinositol 3-kinase activation to stimulate GLUT4 translocation indicates additional signaling pathways are required for insulin-stimulated glucose uptake"

EXAMINER

Hope Robinson

DATE CONSIDERED

5/24/02 / 1/3/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

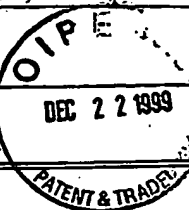
Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28594/35007A	Serial No. 09/400,769
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Erik Helmerhorst <i>et al.</i>	
		Filing Date Sept. 9, 1999	Group 1614 DEC 22 1999

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<input checked="" type="checkbox"/>	C33	Jackson <i>et al.</i> , <i>J. Med. Chem.</i> , 36:1726-1734 (1993) "Design, Synthesis, and Pharmacological Evaluation of Potent Xantone Dicarboxylic Acid Leukotriene B ₄ Receptor Antagonists"
<input type="checkbox"/>	C34	Kahn <i>et al.</i> , <i>J. Biol. Chem.</i> , 249(7):2249-2257 (April 10, 1974) "Quantitative Aspects of the Insulin-Receptor Interaction in Liver Plasma Membranes"
<input type="checkbox"/>	C35	Knegtel <i>et al.</i> , <i>J. Biochem.</i> , 202:447-458 (1991) "The solution structure of a monomeric insulin; A two-dimensional ¹ H-NMR study of des-(B26-B30)-insulin in combination with distance geometry and restrained molecular dynamics"
<input type="checkbox"/>	C36	Kohanski <i>et al.</i> , <i>J. Biol. Chem.</i> , 258(11):5014-5025 (April 25, 1985) "Homogeneous Functional Insulin Receptor from 3T3-L1 Adipocytes"
<input type="checkbox"/>	C37	Konstantopoulos, Thesis Paper present to The University of Melbourne (January 1997) "Involvement of Insulin and its Receptor in Cell-Matrix Interactions"
<input type="checkbox"/>	C38	Kristensen <i>et al.</i> , <i>J. Biol. Chem.</i> , 272(20):12978-12983 (May 16, 1997) "Alanine Scanning Mutagenesis of Insulin"
<input type="checkbox"/>	C39	Li <i>et al.</i> , <i>J. Biol. Chem.</i> , 266(11):7051-7057 (1991) "Insulin Receptors Prepared with Iodoacetamide Show Enhanced Autophosphorylation and Receptor Kinase Activity"
<input type="checkbox"/>	C40	Liang <i>et al.</i> , <i>Science in China (Series B)</i> , 35(5):547-557 (May 4, 1991) "The Possible Mechanism of Binding Interaction of Insulin Molecule Binding With Its Receptor"
<input type="checkbox"/>	C41	Luo <i>et al.</i> , <i>Science</i> , 285:1077-1080 (13 Aug. 1999) "Quaternary Structure of the Insulin-Insulin Receptor Complex"
<input type="checkbox"/>	C42	Maturo III <i>et al.</i> , <i>Proc. Nat'l. Acad. Sci. (USA)</i> , 75(7):3070-7074 (July 1978) "Insulin receptor: Interaction with nonreceptor glycoprotein from liver cell membranes"
<input checked="" type="checkbox"/>	C43	Maturo <i>et al.</i> , <i>Chem. Pharmacology</i> , 37(19):3755-3760 (1988) "Taurine Binding to the Purified Insulin Receptor"

EXAMINER <i>Hope Robinson</i>	DATE CONSIDERED <i>9/24/02 / 1/5/05</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28594/35007A	Serial No. 09/400,769
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		Applicant Erik Helmerhorst <i>et al.</i>	
		Filing Date Sept. 9, 1999	Group 1614



OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
<i>HP</i>	C44	Mirmira <i>et al.</i> , <i>J. Biol. Chem.</i> , 264(11):6349-6354 (April 15, 1989) "Role of the Phenylalanine B24 Side Chain in Directing Insulin Interaction with Its Receptor"
	C45	Mirmira <i>et al.</i> , <i>J. Biol. Chem.</i> 266(3):1428-1436 (1991) "Importance of the Character and Configuration of Residues B24, B25, and B26 in Insulin-Receptor Interactions"
	C46	Mirmira <i>et al.</i> , <i>Biochemistry</i> , 30(33):8222-8229 (1991) "Disposition of the Phenylalanine B25 Side Chain during Insulin-Receptor and Insulin-Insulin Interactions"
	C47	Mortensen <i>et al.</i> , <i>Biochem. J.</i> , 281:735-743 (1992) "Guanosine Nucleotides regulate hormone binding of insulin/receptors"
	C48	Murray-Rust <i>et al.</i> , <i>BioEssays</i> , 14(5):325-331 (May 1992) "Structure and Evolution of Insulins: Implications for Receptor Binding"
	C49	Nakagawa <i>et al.</i> , <i>J. Biol. Chem.</i> , 262(25):12054-12058 (Sept. 1987) "Role of the COOH-terminal B-chain Domain in Insulin-Receptor Interactions"
	C50	Nakagawa <i>et al.</i> , <i>J. Biol. Chem.</i> , 261(16):7332-7341 (June 5, 1986) "Role of the Phenylalanine B25 Side Chain in Directing Insulin Interaction with Its Receptor"
	C51	Nakagawa <i>et al.</i> , <i>Biochemistry</i> , 31:3204-3214 (1992) "Importance of Aliphatic Side-Chain Structure at Positions 2 and 3 of the Insulin Chain in Insulin-Receptor Interactions"
	C52	Peterson <i>et al.</i> , <i>J. Biol. Chem.</i> , 250:5183-5190 (1975) "The amino Acid Sequence of the Insulin from a Primitive Vertebrate, the Atlantic Hagfish (<i>Myxine glutinosa</i>)"
	C53	Pollet <i>et al.</i> , <i>J. Biol. Chem.</i> , 252(16):5828-5834 (Aug. 25, 1977) "Insulin Binding to the Human Lymphocyte Receptor"
<i>U</i>	C54	Pullen <i>et al.</i> , <i>Nature</i> , 259:369-373 (Feb. 5, 1976) "Receptor-binding region of insulin"

EXAMINER <i>Hope Robinson</i>	DATE CONSIDERED <i>8/24/02 1/15/05</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

28594/35007A

Serial No.

09/400,769

Applicant

Erik Helmerhorst *et al.*

Filing Date

Sept. 9, 1999

Group

1614

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

HA	C55	Saunders, <i>Diabetologia</i> , 23:386-390 (1982) "A New Interpretation of Structure-Function Relationships in Insulin-Receptor Interactions"
	C56	Sawyer <i>et al.</i> , <i>J. Med. Chem.</i> , 36:3982-3984 (1993) "Biphenyl-Substituted Xanthenes: Highly Potent Leukotriene B ₄ Receptor Antagonists"
	C57	Schaffer, <i>Eur. J. Biochem.</i> , 221:1127-1132 (1994) "A model for insulin binding to the insulin receptor"
	C58	Sørensen <i>et al.</i> , <i>Biochemistry</i> , 33:13727-13733 (1994) "Structural Details of Asp(B9) Human Insulin at Low pH from Two-Dimensional NMR Titration Studies"
	C59	Soos <i>et al.</i> , <i>Proc. Nat'l. Acad. Sci. (USA)</i> , 86:5217-5221 (July 1989) "Monoclonal antibodies to the insulin receptor mimic metabolic effects of insulin but do not stimulate receptor autophosphorylation in transfected NIH 3T3 fibroblasts"
	C60	Steele-Perkins <i>et al.</i> , <i>J. Biol. Chem.</i> , 265(16):9458-5464 (1990) "Insulin-mimetic Anti-insulin Receptor Monoclonal Antibodies Stimulate Receptor Kinase Activity in Intact Cells"
	C61	Varma <i>et al.</i> , <i>Biochem. Mol. Biol. Internat'l.</i> , 32(5):807-817 (April 1994) "Association of G _(B) : A Novel 66kDa GTP-Binding Placental Protein, with Insulin Receptor"
	C62	Weiss <i>et al.</i> , <i>Biochemistry</i> , 28:9855-9873 (1989) "Two-Dimensional NMR and Photo-CIDNP Studies of the Insulin Monomer: Assignment of Aromatic Resonances with Application to Protein Folding, Structure, and Dynamics"
	C63	Weitzel <i>et al.</i> , <i>Hoppe-Seyler's Z. Physiol. Chem. Bd.</i> , 359:S 945-958 (August 1978) "Structure and Activity of Insulin, XVI ^[1-6] , Semisyntheses of Desheptapeptide-(B24-30)-up to Destripeptide (B28-30)-Insulin with Lysine or Alanine in Place of Arginine in Position B22: Influence on the Three-Step-Increase of Activity in Positions B24-26 (Phe-Phe-Tyr)"
	C64	Wood <i>et al.</i> , <i>Eur. J. Biochem.</i> , 55:531-542 (1975) "The Relation of Conformation and Association of Insulin to Receptor Binding; X-Ray and Circular-Dichroism Studies on Bovine and Hystricomorph Insulins"

EXAMINER

Atze Robinson

DATE CONSIDERED

5/24/02 11/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28594/35007A	Serial No. 09/400,769
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Erik Helmerhorst <i>et al.</i>	
		Filing Date Sept. 9, 1999	Group 1614

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
	C65	Yip, J. <i>Cellular Biochem.</i> 48:19-25 (1992) "The Insulin-Binding Domain of Insulin Receptor Is Encoded by Exon 2 and Exon 3"
	C66	Zhang <i>et al.</i> , <i>Biochem. Molec. Biol. Internat'l.</i> , 36(5):1079-1085 (Aug. 1995) "Recombinant A17 LYS Human Insulin: Purification and Characterization"



EXAMINER 	DATE CONSIDERED 3/24/02 / 1/5/05
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	